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PTO/SB/06a (07-09)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	10/693,429
Filing Date	2003-10-23
First Named Inventor	WALTON; J. Rodney. et al.
Art Unit	2467
Examiner Name	SMITH, MARCUS

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Attorney Docket No: 030417

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number <small>Number-Kind Code^{2(if known)}</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	01	US6847828	01-25-2005	MIYOSHI, et al.	
	02	US4750198	06-07-1988	HARPER; Donald J.	
	03	US4797879	01-10-1989	HABBAB; Isam M. I. et al.	
	04	US5241544	08-31-1993	JASPER; Steven C. et al.	
	05	US5295159	03-15-1994	KERPEZ; Kenneth J.	
	06	US5404355	04-04-1995	RAITH; Alex K.	
	07	US5471647	11-28-1995	GERLACH; Derek. et al.	
	08	US5506861	04-09-1996	BOTTOMLEY; Gregory E.	
	09	US5509003	04-16-1996	SNIJDERS; Wilfred A. M. et al.	
	010	US5606729	02-25-1997	D'AMICO; Thomas V. et al.	
	011	US5638369	06-10-1997	AYERST; Douglas I. et al.	
	012	US5677909	10-14-1997	HEIDE; Carolyn.	
	013	US5729542	03-17-1998	DUPONT; Pierre B.	
	014	US5867478	02-02-1999	BAUM; Kevin Lynn. et al.	
	015	US5867539	02-02-1999	KOSLOV; Joshua L.	
	016	US5886988	03-23-1999	YUN; Louis C. et al.	
	017	US5959965	09-28-1999	OHKUBO; Tadatoshi. et al.	
	018	US5982327	11-09-1999	VOOK; Frederick Werner. et al.	
	019	US6049548	04-11-2000	BRUNO; Ronald. et al.	
	020	US6084915	07-04-2000	WILLIAMS; Richard G. C.	

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		Number-Kind Code ^{2(if known)}			
	021	US6131016	10-10-2000	GREENSTEIN; Lawrence Joel. et al.	
	022	US6141388	10-31-2000	SERVAIS; Frederic Henri. et al.	
	023	US6141567	10-31-2000	YOUSSEFMIR; Michael. et al.	
	024	US6144711	11-07-2000	RALEIGH; Gregory G. et al.	
	025	US6167031	12-26-2000	OLOFSSON; H.ang.kan Gunnar. et al.	
	026	US6178196	01-23-2001	NAGUIB; Ayman F. et al.	
	027	US6232918	05-15-2001	WAX; Mati. et al.	
	028	US6266528	07-24-2001	FARZANEH; Farhad.	
	029	US6278726	08-21-2001	MESECHER; David K. et al.	
	030	US6292917	09-18-2001	SINHA; Deepen. et al.	
	031	US6298035	10-02-2001	HEISKALA; Juha.	
	032	US6298092	10-02-2001	HEATH; Jr. Robert W. et al.	
	033	US6308080	10-23-2001	BURT; Donald G. et al.	
	034	US6314113	11-06-2001	GUEMAS; Philippe.	
	035	US6314289	11-06-2001	EBERLEIN; Ernst. et al.	
	036	US6330293	12-11-2001	KLANK; Otto. et al.	
	037	US6330462	12-11-2001	CHEN; Tao.	
	038	US6333953	12-25-2001	BOTTOMLEY; Gregory E. et al.	
	039	US6339399	01-15-2002	ANDERSSON; Soren. et al.	

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		Number-Kind Code ^{2(if known)}			
	040	US6346910	02-12-2002	ITO; Tei.	
	041	US6348036	02-19-2002	LOONEY; Christopher S. et al.	
	042	US6363267	03-26-2002	LINDSKOG; Jan. et al.	
	043	US6377812	04-23-2002	RASHID-FARROKHI; Farrokh. et al.	
	044	US6385264	05-07-2002	TERASAWA; Daisuke. et al.	
	045	US6452981	09-17-2002	RALEIGH; Gregory G. et al.	
	046	US6473467	10-29-2002	WALLACE; Mark. et al.	
	047	US6532225	03-11-2003	CHANG; Li Fung. et al.	
	048	US6532255	03-11-2003	GUNZELMANN; Bertram. et al.	
	049	US6532562	03-11-2003	CHOU; Philip A. et al.	
	050	US6574211	06-03-2003	PADOVANI; Roberto. et al.	
	051	US6574271	06-03-2003	MESECHER; David K. et al.	
	052	US6594473	07-15-2003	DABAK; Anand G. et al.	
	053	US6594798	07-15-2003	CHOU; Philip A. et al.	
	054	US6608874	08-19-2003	BEIDAS; Bassel F. et al.	
	055	US6611231	08-26-2003	CRILLY; Jr. William J. et al.	
	056	US6615024	09-02-2003	BOROS; Tibor. et al.	
	057	US6636568	10-21-2003	KADOUS; Tamer.	
	058	US6654590	11-25-2003	BOROS; Tibor. et al.	

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		Number-Kind Code ^{2(if known)}			
	059	US6654613	11-25-2003	MAENG; Seung-Joo. et al.	
	060	US6668161	12-23-2003	BOROS; Tibor. et al.	
	061	US6683916	01-27-2004	SARTORI; Philippe Jean-Marc. et al.	
	062	US6690660	02-10-2004	KIM; Younglok. et al.	
	063	US6693992	02-17-2004	JONES; William W. et al.	
	064	US6697346	02-24-2004	HALTON; John. et al.	
	065	US6731668	05-04-2004	KETCHUM; John W.	
	066	US6735188	05-11-2004	BECKER; Donald W. et al.	
	067	US6738020	05-18-2004	LINDSKOG; Erik D. et al.	
	068	US6751187	06-15-2004	WALTON; Jay R. et al.	
	069	US6751444	06-15-2004	MEIYAPPAN; Palaniappan.	
	070	US6751480	06-15-2004	KOGIANTIS; Achilles George. et al.	
	071	US6760313	07-06-2004	SINDHUSHAYANA; Nagabhushana T. et al.	
	072	US6760388	07-06-2004	KETCHUM; John W. et al.	
	073	US6760882	07-06-2004	GESBERT; David J. et al.	
	074	US6771706	08-03-2004	LING; Fuyun. et al.	
	075	US6785341	08-31-2004	WALTON; Jay R. et al.	
	076	US6788948	09-07-2004	LINDSKOG; Erik D. et al.	
	077	US6792041	09-14-2004	KIM; Beong-Jo. et al.	
	078	US6795424	09-21-2004	KAPOOR; Samir. et al.	

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	079	US6801790	10-05-2004	RUDRAPATNA; Ashok N.	
	080	US6859503	02-22-2005	PAUTLER; Joseph J. et al.	
	081	US6862271	03-01-2005	MEDVEDEV; Irina. et al.	
	082	US68668079	03-15-2005	HUNT; Bernard.	
	083	US6873651	03-29-2005	TESFAI; Yohannes. et al.	
	084	US6879578	04-12-2005	PAN; Jung-Lin. et al.	
	085	US6879579	04-12-2005	MYLES; Andrew Frederick. et al.	
	086	US6885708	04-26-2005	THOMAS; Timothy A. et al.	
	087	US6888809	05-03-2005	FOSCHINI; Gerard Joseph. et al.	
	088	US6888899	05-03-2005	RALEIGH; Gregory G. et al.	
	089	US6920192	07-19-2005	LAROIA; Rajiv. et al.	
	090	US6920194	07-19-2005	STOPLER; Danny. et al.	
	091	US6940917	09-06-2005	MENON; Murali Paravath. et al.	
	092	US6950632	09-27-2005	YUN; Yu-Suk. et al.	
	093	US6952426	10-04-2005	WU; Geng. et al.	
	094	US6956813	10-18-2005	FUKUDA; Kunio.	
	095	US6956906	10-18-2005	TAGER; Wolfgang. et al.	
	096	US6963742	11-08-2005	BOROS; Tibor. et al.	
	097	US6965762	11-15-2005	SUGAR; Gary L. et al.	
	098	US6980800	12-27-2005	NOERPEL; Anthony. et al.	

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	099	US6985434	01-10-2006	WU; Shiquan. et al.	
	0100	US6996380	02-07-2006	DENT; Paul Wilkinson.	
	0101	US7006464	02-28-2006	GOPALAKRISHNAN; Nandu. et al.	
	0102	US7020110	03-28-2006	WALTON; Jay Rod. et al.	
	0103	US7020490	03-28-2006	KHATRI; Bhavin S.	
	0104	US7023826	04-04-2006	SJOBERG; Sten. et al.	
	0105	US7031671	04-18-2006	MOTTIER; David.	
	0106	US7035359	04-25-2006	MOLNAR; Karl James.	
	0107	US7062294	06-13-2006	ROGARD; Roger. et al.	
	0108	US7072381	07-04-2006	ATARASHI; Hiroyuki. et al.	
	0109	US7072410	07-04-2006	MONSEN; Peter.	
	0110	US7072413	07-04-2006	WALTON; Jay R. et al.	
	0111	US7088671	08-08-2006	MONSEN; Peter.	
	0112	US7095709	08-22-2006	WALTON; Jay R. et al.	
	0113	US7099377	08-29-2006	BERENS; Friedbert. et al.	
	0114	US7103325	09-05-2006	JIA; Ming. et al.	
	0115	US7110378	09-19-2006	ONGGOSANUSI; Eko Nugroho. et al.	
	0116	US7110463	09-19-2006	WALLACE; Mark S. et al.	
	0117	US7113499	09-26-2006	NAFIE; Mohammed. et al.	
	0118	US7116652	10-03-2006	LOZANO; Angel.	

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Filing Date	2003-10-23
First Named Inventor	WALTON; J. Rodney. et al.
Art Unit	2467
Examiner Name	SMITH, MARCUS

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Attorney Docket No: 030417

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2(if known)}			
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	0120	US7133459	11-07-2006	ONGGOSANUSI; Eko N. et al.	
	0121	US7149239	12-12-2006	HUDSON; John E.	
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	0123	US7155171	12-26-2006	EBERT; Paul Michael. et al.	
	0124	US7158563	01-02-2007	GINIS; Georgios. et al.	
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**INFORMATION DISCLOSURE
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		Number-Kind Code ^{2(if known)}			
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0140	US7263119		08-28-2007	HSU; Yungping. et al.	
0141	US7280625		10-09-2007	KETCHUM; John W. et al.	
0142	US7283508		10-16-2007	CHOI; Sung-Ho. et al.	
0143	US7289570		10-30-2007	SCHMIDL; Timothy. et al.	
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0147	US7327800		02-05-2008	OPREA; Alexandru M. et al.	
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0149	US7386076		06-10-2008	ONGGOSANUSI; Eko N. et al.	
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0159	US7606296		10-20-2009	HSU; Yungping, et al.	
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		Country Code ³ - Number ⁴ -Kind Code ^{5(if known)}				
0220	EP0772329	05-07-1997	DIGI MEDIA VISION LTD [GB]			<input type="checkbox"/>
0221	EP0895387	02-03-1999	THOMSON BRANDT GMBH [DE]			<input type="checkbox"/>
0222	EP0993211	04-12-2000	SONY INT EUROP GMBH [DE]			<input type="checkbox"/>
0223	EP1143754	10-10-2001	SONY INT EUROP GMBH [DE]			<input type="checkbox"/>
0224	JP11205273	07-30-1999	TOSHIBA CORP			<input type="checkbox"/>
0225	WO01076110	10-11-2001	QUALCOMM INC [US]			<input type="checkbox"/>
0226	CN1234661	11-10-1999	SONY INTERNATIONAL EUROP CO LT [DE]			<input type="checkbox"/>
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0228	JP1132027	05-24-1989	TOSHIBA CORP			<input type="checkbox"/>
0229	JP1141159	02-12-1999	NIPPON TELEGR & TELEPH CORP			<input type="checkbox"/>
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First Named Inventor	WALTON; J. Rodney, et al.
Art Unit	2467
Examiner Name	SMITH, MARCUS

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Attorney Docket No: 030417

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
0231	JP8274756	10-18-1996	TOSHIBA CORP			<input type="checkbox"/>
0232	WO199809381	03-05-1998	UNIV LELAND STANFORD JUNIOR [US]			<input type="checkbox"/>
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0234	WO2002003557	01-10-2002	IOSPAN WIRELESS INC [US]			<input type="checkbox"/>
0235	WO2002069523	09-06-2002	MAGNOLIA BROADBAND INC [US]			<input type="checkbox"/>
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0238	EP0755090A1	01-22-1997	NORTHERN TELECOM LTD [CA]			<input type="checkbox"/>
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0241	EP0991221A2	04-05-2000	LUCENT TECHNOLOGIES INC [US]			<input type="checkbox"/>
0242	EP1087545A1	03-28-2001	UNIV SINGAPORE [SG]			<input type="checkbox"/>
0243	EP1117197A2	07-18-2001	LUCENT TECHNOLOGIES INC [US]			<input type="checkbox"/>
0244	EP1170879A1	01-09-2002	MATSUSHITA ELECTRIC IND CO LTD [JP]			<input type="checkbox"/>
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0246	EP1207635A1	05-22-2002	LUCENT TECHNOLOGIES INC [US]			<input type="checkbox"/>
0247	EP1207645A1	05-22-2002	LUCENT TECHNOLOGIES INC [US]			<input type="checkbox"/>

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	0248	EP1223702A1	07-17-2002	LUCENT TECHNOLOGIES INC [US].		<input type="checkbox"/>
	0249	EP1241824A1	09-18-2002	ERICSSON TELEFON AB L M [SE].		<input type="checkbox"/>
	0250	GB2300337A	10-30-1996	ERICSSON GE MOBILE COMMUNICAT [US].		<input type="checkbox"/>
	0251	JP10209956A	08-07-1998	NIPPON TELEGRAPH & amp; et al.		<input type="checkbox"/>
	0252	JP11069431A	03-09-1999	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
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	0258	JP2001237751A	08-31-2001	LUCENT TECHNOLOGIES INC.		<input type="checkbox"/>
	0259	JP6501139T	01-27-1994	ERICSSON GE MOBILE COMMUNICATIONS HOLDING INC		<input type="checkbox"/>
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	0261	RU2152132C1	06-27-2000	J NII SVJAZI, et al.		<input type="checkbox"/>
	0262	RU2158479C2	10-27-2000	AL KATEL N V [NL].		<input type="checkbox"/>

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	0263	RU2201034C2	03-20-2003	ERICSSON TELEFON AB L M [SE].		<input type="checkbox"/>
	0264	WO0011823A1	03-02-2000	RADIX TECHNOLOGIES INC [US], et al.		<input type="checkbox"/>
	0265	WO0036764A2	06-22-2000	NOKIA NETWORKS OY [FI], et al.		<input type="checkbox"/>
	0266	WO0105067A1	01-18-2001	SAMSUNG ELECTRONICS CO LTD [KR].		<input type="checkbox"/>
	0267	WO0180510A1	10-25-2001	AWARE INC [US].		<input type="checkbox"/>
	0268	WO0182521A2	11-01-2001	QUALCOMM INC [US].		<input type="checkbox"/>
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	0273	WO02069590A1	09-06-2002	QUALCOMM INCOPORATED [US].		<input type="checkbox"/>
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	0277	WO03010984A1	02-06-2003	NORTEL NETWORKS LTD [CA].		<input type="checkbox"/>
	0278	WO03019984A1	03-06-2003	COMMISSARIAT ENERGIE ATOMIQUE [FR], et al.		<input type="checkbox"/>
	0279	WO03034646A2	04-24-2003	NORTEL NETWORKS LTD [CA].		<input type="checkbox"/>

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0280	WO200171928	09-27-2001	QUALCOMM INC [US]			<input type="checkbox"/>
0281	WO2004039011A2	05-06-2004	QUALCOMM INC [US].			<input type="checkbox"/>
0282	WO9530316A1	11-09-1995	MOTOROLA INC [US].			<input type="checkbox"/>
0283	WO9532567A1	11-30-1995	SPECTRIX CORP [US].			<input type="checkbox"/>
0284	WO9622662A1	07-25-1996	ARRAYCOMM INC [US].			<input type="checkbox"/>
0285	WO9719525A1	05-29-1997	MOTOROLA INC [US].			<input type="checkbox"/>
0286	WO99016214	04-01-1999	COMMW SCIENT IND RES ORG [AU] ET AL.			<input type="checkbox"/>
0287	WO9944379A1	09-02-1999	ERICSSON TELEFON AB L M [SE].			<input type="checkbox"/>
0288	WO9957820	11-11-1999	ARRAYCOMM INC [US]			<input type="checkbox"/>
0289	WO04039022	05-06-2004	QUALCOMM INC [US]			<input type="checkbox"/>
0290	WO96035268	11-07-1996	QUALCOMM INC [US]			<input type="checkbox"/>

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	0291	3GPP2 TIA/EIA/IS-2000-2-A, "Physical Layer Standard for cdma2000 Spread Spectrum Systems", (November 19, 1999).	
	0292	ALAMOUTI, S.M., "A Simple Transmit Diversity Technique for Wireless Communications," IEEE Journal on Select Areas in Communications, Vol.16, No.8, October 1998, pgs. 1451-1458.	

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	0293	B. HASSIBI, et al. "High-Rate Codes that are Linear in Space and Time," LUCENT Technologies, Murray Hill, NY (USA), Aug. 22, 2000, (pp. 1-54). .	
	0294	CHEN, K.C. et al., "Novel Space-Time Processing of DS/CDMA Multipath Signal," IEEE 49th, Vehicular Technology Conference, Houston, Texas, May 16-20, 1999, pgs. 1809-1813.	
	0295	CHOI, R. et al., "MIMO Transmit Optimization for Wireless Communication Systems," Proceedings of the First IEEE International workshops on Electronic Design, pgs. 1-6, Piscataway, New Jersey, January 29-31 (2002).	
	0296	ETSI TS 101 761-1 v1.3.1, "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Data Link Control (DLC) Layer; Part 1: Basic Data Transport Functions," ETSI Standards, European Telecommunications Standards Institute BR (V131), pgs. 1-88 (2001-12).	
	0297	FUJII, M.: "Pseudo-Orthogonal Multibeam-Time Transmit Diversity for OFDM-CDMA" pgs.222-226 (2002).	
	0298	GAO, et al. "On implementation of Bit-Loading Algorithms for OFDM Systems with Multiple-Input Multiple Output," VTC 2002-Fall. 2002 IEEE 56th. Vehicular Technology Conference Proceedings. Vancouver, Canada, Sept. 24-28, 2002, IEEE Vehicular Technology Con.	
	0299	HAUSTEIN, T. et al.: "Performance of MIMO Systems with Channel Inversion," IEEE 55th Vehicular Technology Conference, Birmingham, Alabama, May 6-9 (2002), pgs. 35-39.	
	0300	HAYASHI, K, A New Spatio-Temporal Equalization Method Based On Estimated Channel Response, Sept. 2001, IEEE Transaction on Vehicular Technology, vol. 50, Issue 5, pp. 1250-1259.	
	0301	HONG, D. K. et al.: "Robust Frequency Offset Estimation for Pilot Symbol Assisted Packet CDMA with MIMO Antenna Systems," IEEE Communications Letters, vol. 6, no. 6, pgs. 262-264 (June 2002).	
	0302	IEEE Std 802.11a-1999 (Supplement to IEEE Std 801.11-1999) "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High-Speed physical Layer in the 5GHz Band", pgs. 1-90, September 1999.	
	0303	JOHAM, M. et al.: "Symbol Rate Processing for the Downlink of DS-CDMA Systems", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 1, paragraphs 1, 2;	

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		IEEE Service Center, Piscataway, US, (2001-01-01), XP011055296, ISSN: 0733-8716.	
0304		JOHN A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," IEEE Communications Magazines, May 1990 (pgs. 5-13).	
0305		JONGREN et al., "Utilizing Quantized Feedback Information in Orthogonal Space-Time Block Coding," 2000 IEEE Global Telecommunications Conference, 2(4): 995-999, November 27, 2000.	
0306		KIESSLING, et al., "Short-Term and Long Term Diagonalization of Correlated MIMO Channels with Adaptive Modulation," IEEE Conference, vol. 2, (2002-09-15), pgs. 593-597.	
0307		L. DENEIRE, et al. "A LOW COMPLEXITY ML CHANNEL ESTIMATOR FOR OFDM," PROC IEEE ICC JUNE 2001 pgs. 1461-1465.	
0308		LI LIHUA, et al., "A Practical Space-Frequency Block Coded OFDM Scheme for Fast Fading Broadband Channels" 13th IEEE International Symposium on Personal Indoor and Mobile Radio Communications. PIMRC 2002. 15-18, September, 2002, pages 212-216, vol. 1, XP002280831.	
0309		M.A. KOUSA, et al., "Multichannel adaptive system," IEE PROCEEDINGS-I, Vol. 140, No. 5, October 1993, pages 357-364.	
0310		MIYASHITA, et al., "High Data-Rate Transmission with Eigenbeam-Space Division Multiplexing (E-SDM) in a MIMO Channel," VTC 2002-Fall. 2002 IEEE 56th. Vehicular Technology Conference Proceedings. Vancouver, Canada, Sept. 24-28, 2002, IEEE Vehicular Technology.	
0311		P.W. WOLNIANSKY, et al. "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel," LUCENT Technologies, Holmdel, NJ..	
0312		PAUTLER, J. et al.: "On Application of Multiple-Input Multiple-Output Antennas to CDMA Cellular Systems," IEEE 54th Vehicular Technology Conference Proceedings, Atlantic City, New Jersey, October 7-11 (2001), pgs. 1508-1512.	
0313		TARIGHAT, A. et al. "Performance Analysis of Different Algorithms for cdma2000 Antenna Array System and a New Multi User Beamforming (MUB) Algorithm", Wireless Communications and Networking Conference, Vol. 1, pgs. 409-414, Sep. 23, 2000.	
0314		THEON, S. et al. "Improved Adaptive Downlink for OFDM/SDMA-Based Wireless Networks," IEEE VTS 53rd Vehicular Technology Conference, pgs. 707-711, Rhodes,	

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Complete if Known	
Application Number	10/693,429
Filing Date	2003-10-23
First Named Inventor	WALTON; J. Rodney, et al.
Art Unit	2467
Examiner Name	SMITH, MARCUS

Sheet

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Attorney Docket No: 030417

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		Greece, May 6-9, (2001).	
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EXAMINER SIGNATURE

/Marcus Smith/

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